SANJEEV KUMAR

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# SUMMARY

A results-driven Senior Cloud DevSecOps Professional with total 16+ years of experience leading and optimizing software delivery pipelines across diverse cloud environments. Certified Kubernetes CKA and CKAD, AWS Developer & Solution Architect Associate. Possesses deep expertise in AWS cloud platforms, AWS Infra Management Supports & Automations, DevOps tools, and CI/CD pipelines. Experienced in working with multiple onsite clients Samsung (Suwon, Korea), Technicolor (Shenzhen, China), BSKYB (London, UK) and PACE Micro Technology (Leeds, UK)

# Key Skills & Experience:

• Cloud Expertise: AWS – Identity & Access Management, EC2, AWS Load Balancer, Auto Scaling Group, S3, Lambda, ECS, EKS, SES, Batch, Route53, Event Bridge, CloudFormation etc

• DevOps Tools & Methodologies: Jenkins, Ansible, maven, Terraform, Git, Docker, Kubernetes, Prometheus, Grafana, CI/CD pipelines, Agile

• Leadership & Management: Over 10 years of experience leading teams and collaborating with stakeholders, clients, technical professionals, and customers. Team building, coaching, mentoring, performance management, conflict resolution

• Communication & Collaboration: Excellent communication skills, both written and verbal, collaboration with cross-functional teams (Service development, Operations, Security)

• Problem-Solving & Analysis: Strong analytical and problem-solving skills, ability to identify and resolve technical issues efficiently

• Automation & Scripting: Experience with scripting languages Python Boto3, Bash, Groovy, Ansible for automating tasks

# WORK EXPERIENCE

**Samsung Research & Development Institute, Delhi** August 2013-Present

***Senior Chief Engineer***

**Project Name**: AWS DevSecOps CI CD pipeline Development & Management

**Client**: Samsung Korea (Visual Display division Smart TV)

**Duration**: From June 2017 – Continuing

**Team Size**: 5

**Dev Environment**: AWS, Jenkins, Kubernetes, GCP, AZURE, Ansible, GIT, Nexus, Maven

**Domain**: Cloud DevOps

**Organization** Samsung R&D Institute, Delhi

* Delivered DevOps CI/CD Jenkins jobs pipeline, for automating around 50+ Samsung Visual Display cloud services for a one click deployment on three different environment development, staging and production.
* Delivered DevOps Jenkins pipeline deployment as a code on AWS EC2 servers, Lambda, ECS cluster, EKS cluster.
* Migration of Jenkins master Servers and agents from JDK 8 to JDK 11 version.
* Reduced deployment time by 90% through automation of DevOps CI/CD pipeline.
* Expert on build environment using Maven, Gradle, Angular, Node.js, python etc

· Expert in Cloud Infra management AWS, GCP to manage IAM roles, IAM policy, IAM Users, VPC peering, VPC creation/deletion, route53 record set creation, Service account, project creation/deletion etc.

· Infra Management automations helped Service team to create AWS Event Bridge in all active regions in no time which deletes security threat automatically.

* Delivered Jenkins pipeline as a code for AWS S3 bucket upload/download, running CloudFormation scripts to create AWS infra etc.
* Delivered DevOps CI 100+ Jenkins jobs pipeline to run SonarQube, Quality gates, Soap UI, JMeter.
* Worked with Ansible Inventory, Playbook, Roles for configuration management, software provisioning, attach/detach of ALB, ELB and deployment of applications on servers as a part of post submit CI/CD process to automate the services.
* Successfully delivered infra management related POC automation on AWS Event Bridge creation using python Boto3 scripting
* Successfully delivered POC: AWS Route53 record sets back up creation and restoration into new region
* Successfully delivered POC (Python Boto3): Comparison of GCP account with AWS account present in Visual Display Organization and sending the differences over email.
* POC : A Jenkins pipeline for upload/download from BART repository
* Worked in public clouds like AWS, GCP and Microsoft Azure.
* Experienced with infra as code tool like Terraform and CloudFormation.
* Experienced in Docker, Kubernetes and AWS ECS
* Experienced in deploying monitoring tools like Prometheus, Grafana.

**Samsung Research & Development Institute, Delhi**

***Chief Engineer***

**Project Name**: Server Release Management

**Client**: Samsung Korea (Visual Display division)

**Duration**: From June 2016 – June 2017

**Team Size**: 7

**Dev Environment**: AWS, Jenkins,GCP, Azure, GIT, Nexus, Maven

**Domain**: Cloud DevOps

**Organization** Samsung R&D Institute, Delhi

* Ownership of Samsung Visual Display Service Release Management on Production Servers.
* Server production release involves with release candidate, creating backup, capturing AMI snapshot, attach/detach ELB/SLB, installing SSL security update and ARGUS monitoring software installation for Server Release Management.
* Delivered manual deployment of over 50+ services and 500+ production server releases per year.
* Collaborating with Stack holders, HQ Management, Services team, Test team for successful delivery of release candidate every time.

**Project Name:** Audio Video Output Control

**Client**: Samsung Korea (Visual Display division)

**Duration**: June 2015 – June 2016

**Team Size**: 6

**Dev Environment**: Tizen

**Domain**: Platform Software Development

**Organization** Samsung R&D Institute, Delhi

* Successfully owned AVOC module from HQ for design and development on Tizen platform.
* Added new feature for picture mode.
* Management of a team involved in development, integration and testing of AVOC related module for various Samsung Smart TV models (DVB, ISDB, ATSC etc).
* Design and development of .NET Api layer for first screen application.

Development of support for special modes like Sports Mode, Indian Cinema mode etc and special viewing mode “See Color” application for better user experience.

* Developed over 900 unit tests and scenario test cases for the AVOC module.
* Delivered successfully AVOC module in production of 2015-16 Samsung Smart DTV on Tizen platform.

**Project Name**: HD PVR and HD Zapper set top Box

**Client**: Malaysian Based Broadcaster (Visual Display division)

**Duration**: From AUG 2013 – June 2015

**Team Size**: 4

**Dev Environment**: Linux

**Domain**: SET TOP BOX

* Delivered complete products of multiple STB HD/SD boxes for Malaysian Broadcaster.
* Management of a team involved in development, integration and testing of STB products.
* Responsible for all the releases related to drivers, mass production tool image to Third Party and HQ Korea and got the Third Party approvals like NDS Fosh and Linux Kernel Hardening.

**Corpus Media labs, Hyderabad** January 2012 – August 2013

*Team Lead*

**Project Name**: HD PVR and HD Zapper set top Box

**Client**: Indian Based Broadcaster

**Duration**: From AUG 2013 – June 2014

**Team Size**: 4

**Dev Environment**: Linux, OS20/40

**Domain**: SET TOP BOX

* Delivered design and development of hardware abstraction layer on BCM platform to expose the driver APIs.
* Delivered board bring up activity on ST chipset to develop a testing application for the middleware of the DTV cable set top box.
* Delivered on integrating Mediaplayer with SDK to provide support for OTT supported protocols.
* Delivered on development of device drivers for peripherals and its supporting chipset on DTV platform.
* Delivered on design and development of EEPROM drivers using I2C communication protocol, to support persistence data with CORPUS specific algorithm.

**Tata Elxsi Limited, Bengaluru** January 2007 – December 2011

*Tech Lead*

**Project Name**: HD PVR and HD Zapper set top Box

**Client**: Technicolor for Indian Telecom giant

**Team Size**: 10

**Dev Environment**: Linux

**Domain**: *SET TOP BOX*

* Delivered on implementation of RF Signal symmetry to represent Signal Strength and Quality on EPG.
* Board bring up activity on LAB1 board such as U boot modification, enabling ethernet, USB, NAND

and NOR devices.

* Delivered on development of front panel indicator, keypad and RCMM supported remote control unit as per CDI specification.
* Delivered to grant NDS FOSH tests certificates on platform drivers to validate drivers.

**Project Name**: HD PVR Boxes

**Client**: British Sky Broadcasting

**Team Size**: 20

**Dev Environment**: Linux, NDS Media Highway Fusion OS

**Domain**: SET TOP BOX

* Integration of Darwin Tool chain to Platform Specific drivers leads to a Full stack image for production.
* Resolving real time issues and coordinating with NDS and S3 driver team for verification and validation.
* Worked on sanity testing of Conditional access driver and XTV sanity testing using harmonizer tool.
* Integration of third party low driver, XTV6 PVR support for the box and integration of third party components - Middleware and EPG.

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**Project Name**: HD/SD PVR Boxes, Zapper Boxes

**Client**: Sky Italia (PACE)

**Team Size**: 20

**Dev Environment**: Linux, NDS Media Highway Fusion OS

**Domain**: SET TOP BOX

* Porting of Third-party low-level driver.
* Porting XTV6 PVR support for the box.
* Integration of the third-party components- Middleware and EPG.
* Delivery to grant NDS Fosh Validation suite.
* Delivery to grant Conditional access driver sanity testing before releasing.
* Involved with Hardware Functional acceptance testing and resolving issues associated with video, Display Aspect

ratio and still images.

* Involved with Release process to Third party and end client.

# EDUCATION

**Bangalore Institute of Technology , Bengaluru** *August 1999 - August 2003*

Bachelor of Engineering, Telecommunication Engineering CGPA: 6.5/10

# LINKS

* linkedin.com/in/sanjeevtiwary/